

## CLAIMS

1. A stereoscopic image generating apparatus comprising:

an input image storage memory comprising storage areas corresponding to n viewing images inputted from an outside for every frame, respectively; and

an interleaver for interleaving the viewing images in parallel by reading out image data to be sampled of the viewing images from predetermined storage addresses of the input image storage memory, and generating a stereoscopic image to be displayed on a n-eye type of stereoscopic image display apparatus.

2. A stereoscopic image generating apparatus comprising:

a frame buffer for storing a frame of stereoscopic images therein; and

an interleaver, when n viewing images are inputted from an outside for every frame in serial order, for interleaving stereoscopic images stored in the frame buffer with viewing images inputted, restoring the stereoscopic images, and generating a stereoscopic image to be displayed on a n-eye type of stereoscopic image display apparatus.

3. A game apparatus comprising the stereoscopic image

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generating apparatus as claimed in claim 1 and a n-eye type of stereoscopic image display apparatus, further comprising:

a game image generating section for generating game images corresponding to n viewpoints for every frame; and

a game operating section for operating a stereoscopic dynamic image game by making the stereoscopic image generating apparatus generate a stereoscopic image on the basis of the game images, and by making the stereoscopic image display apparatus display the stereoscopic image thereon.

4. A game apparatus comprising the stereoscopic image generating apparatus as claimed in claim 2 and a n-eye type of stereoscopic image display apparatus, further comprising:

a game image generating section for generating game images corresponding to n viewpoints for every frame; and

a game operating section for operating a stereoscopic dynamic image game by making the stereoscopic image generating apparatus generate a stereoscopic image on the basis of the game images, and by making the stereoscopic image display apparatus display the stereoscopic image thereon.

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